

# Guided actuator DFM-100-80-P-A-GF

Part number: 170894

FESTO



## Data sheet

| Feature   | Value  |
|---|--|
| Distance of centre of gravity of payload to yoke plate xs       | 125 mm   |
| Stroke  | 80 mm  |
| Piston diameter   | 100 mm   |
| Type code   | DFM  |
| Drive unit operating mode                                       | Yoke   |
| Cushioning  | Elastic cushioning rings/pads at both ends                         |
| Mounting position   | Any  |
| Guide   | Sliding guide  |
| Structural design   | Guide  |
| Position sensing  | For proximity sensor   |
| Symbol  | 00991737   |
| Operating pressure  | 0.05 MPa ... 1 MPa   |
| Operating pressure  | 0.5 bar ... 10 bar   |
| Max. speed  | 0.4 m/s  |
| Mode of operation   | Double-acting  |
| Operating medium  | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media                        | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)                                | 1 - Low corrosion stress   |
| Ambient temperature   | -20 °C ... 80 °C   |
| Impact energy in the end positions                              | 1 J  |
| Max. permissible torque load Mx as a function of the stroke     | 53.4 Nm  |
| Max. payload as a function of the stroke at defined distance xs | 568 N  |
| Theoretical force at 6 bar, retracting                          | 4418 N   |
| Theoretical force at 6 bar, advancing                           | 4712 N   |
| Moving mass   | 8141 g   |
| Product weight  | 14699 g  |
| Alternative connections   | See product drawing  |
| Pneumatic connection  | G3/8   |
| Note on materials   | RoHS-compliant   |
| Cover material  | Wrought aluminum alloy   |
| Seals material  | NBR  |
| Housing material  | Wrought aluminum alloy   |
| Piston rod material   | High-alloy stainless steel   |